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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/078,877	02/19/2002	Shu Lin	PU020036	6310

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EXAMINER

SHELEHEDA, JAMES R

ART UNIT	PAPER NUMBER
2623	

DATE MAILED: 09/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/078,877

Applicant(s)

LIN ET AL.

Examiner

James Sheleheda

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 August 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 8/24/06 have been fully considered but they are not persuasive.

On pages 5 and 6, of applicant's response, applicant argues that Fujimara fails to disclose searching for a picture compatible with the trick play mode.

In response, Fujimara specifically discloses wherein the system will continue to decode frames after a trick play mode has been initiated (frame P14; column 14, lines 50-67). When the system detects that the decoder has surpassed the time stamp data, the system will then cease to decode the current frame and proceed to repeatedly output the previously output frame (P12; column 14, line 50-column 15, line 14). This clearly reads upon the broad claim limitation of performing a "search", as the computer system advances decoding until the time stamp of the current frame has surpassed the sync timing data. Upon detection of the time stamp being too large, the computer system will then initiate repeated output of the previous frame.

On pages 5 and 6, of applicant's response, applicant argues that Fujimara fails to disclose "delaying" trick mode and initiating trick mode after a compatible picture is located searching for a picture compatible with the trick play mode.

In response, while the term "delay" is not explicitly recited in the claims, as indicated above, Fujimara specifically discloses wherein the system will continue to

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decode frames after a trick play mode has been initiated (frame P14; column 14, lines 50-67). When the system detects that the decoder has surpassed the time stamp data, the system will then cease to decode the current frame and proceed to repeatedly output the previously output frame (P12; column 14, line 50-column 15, line 14). Thus, the system continues running normally until after the time stamps are no longer synchronized before initiating pause mode with the previous frame. This clearly reads upon "delaying" the trick mode.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 - 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Fujinami (5,502,573).

Considering claims 1 and 10, Fujinami discloses a method of performing a trick mode comprising the steps of:

receiving a trick mode command (control circuit receives input signals, column 13 lines 45-50 and user initiates a pause operation, column 14 lines 20-23);
searching the plurality of original pictures in the video signal for a picture compatible with the trick mode (when the user initiates a pause command, the

system searches for the current picture and corresponding timing data column 14 line 50 – column 15 line 14);

initiating the trick mode once the compatible picture is located (column 15 lines 7-14);

wherein the trick mode command is a freeze (pause) trick mode (column 14 line 50 - column 15 line 13).

As for claim 2 Fujinami discloses the method wherein the compatible picture is an intra picture (definition of P, B, and I, within the system column 4 lines 12-21, and the compatible pictures are intra pictures, predictive pictures and Bi-directional pictures, the type of picture is determined by the current frame that the system is displaying when the user pauses initiates a pause command, column 14 lines 29-33).

With respect to claim 3 Fujinami discloses the method wherein the compatible picture is a predictive picture (definition of P, B, and I, within the system column 4 lines 12-21, and the compatible pictures are intra pictures, predictive pictures and Bi-directional pictures, the type of picture is determined by the current frame that the system is displaying when the user pauses initiates a pause command, column 14 lines 29-33).

Dealing with claim 4 Fujinami discloses the method wherein the trick mode is a freeze (pause) trick mode and said method further comprises the step of repeating the

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compatible picture for the duration of the trick mode to form a trick mode signal (column 14 line 50 - column 15 line 13).

In regard to claim 5, Fujinami discloses the method wherein said repeating step further comprises the step of repeating the compatible picture for the duration of the trick mode by inserting into the video signal dummy pictures predicted from the compatible picture to form the trick mode video signal (picture is repeatedly supplied to the viewer which the equivalent of inserting dummy pictures into the signal since dummy pictures are just repeated duplicates of the compatible pictures column 14 line 50 - column 15 line 13).

Considering claim 6, Fujinami discloses the method wherein each of the plurality of original pictures contains a display indicator (timing data) and said method further comprises the step of selectively modifying the display indicator of the original pictures that follow the compatible picture when a dummy picture is inserted into the video signal (a display indicator as disclosed in the applicants specification instructs certain decoders as to when a particular picture will be displayed relative to a number of other pictures in a video signal, the timing data that Fujinami discloses directs his system as to which frame to display relative to the other frames when a pause command is initiated, and when the dummy [duplicate] picture is inserted in the signal, the timing signal is modified to remain unchanged instead of continuing its counting sequence, column 14 line 50 - column 15 line 13).

As for claim 7, Fujinami discloses the method wherein the dummy pictures are dummy predictive pictures (the compatible pictures are intra pictures, predictive pictures and Bi-directional pictures, the type of picture is determined by the current frame that the system is displaying when the user pauses initiates a pause command, column 14 lines 29-33 and when the system is paused compatible pictures are repeatedly supplied to the viewer which the equivalent of inserting dummy pictures into the signal since dummy pictures are just repeated duplicates of the compatible pictures column 14 line 50 - column 15 line 13).

With respect to claim 8, Fujinami discloses the method wherein the compatible picture is an intra picture and said method further comprises the step of selectively inserting the compatible I picture into the trick mode signal (the I-frame is selectively inserted when the users initiates a pause command when the I-frame is the current frame being displayed column 14 line 50 - column 15 line 13).

As for claim 9, Fujinami discloses the method wherein at least a portion of the trick mode is decoded by a remote decoder (the decoder is built in to the system therefor the system decodes signals that have been loaded onto the storage drive, 8 Fig. 4B).

Dealing with claim 11, Fujinami discloses a system for performing a trick mode on a video signal containing a plurality of original pictures, comprising:

a controller (28 Fig. 4A) for reading data from a storage medium (1 Fig 4A) and generating the video signal (column 13 lines 45-50);

and a video processor (28 Fig. 4A), wherein the processor is programmed to:

receive a trick mode command (column 13 lines 45-50);

search the plurality of original pictures for a picture in the video signal compatible with the trick mode(see analysis of claim 1);

and initiate the trick mode once the compatible picture is located (see analysis of claim 1).

As for claim 12 Fujinami discloses a system wherein the compatible picture is an intra picture pictures (the compatible pictures are intra pictures, predictive pictures and Bi-directional pictures, the type of picture is determined by the current frame that the system is displaying when the user pauses initiates a pause command, column 14 lines 29-33).

With respect to claim 13, Fujinami discloses the system wherein the compatible picture is a predictive picture pictures (the compatible pictures are intra pictures, predictive pictures and Bi-directional pictures, the type of picture is determined by the

current frame that the system is displaying when the user pauses initiates a pause command, column 14 lines 29-33).

Dealing with claim 14, Fujinami discloses the system wherein the trick mode is a freeze (pause) trick mode and the processor (28 Fig. 4A) is further programmed to repeat the compatible picture for the duration of the trick mode to form a trick mode signal (column 14 line 50 - column 15 line 13).

In regard to claim 15, Fujinami discloses the system wherein the processor (28 Fig. 4A) is further programmed to repeat the compatible picture for the duration of the trick mode by inserting into the video signal dummy pictures predicted from the compatible picture to form the trick mode video signal (picture is repeatedly supplied to the viewer which the equivalent of inserting dummy pictures into the signal since dummy pictures are just repeated duplicates of the compatible pictures column 14 line 50 - column 15 line 13).

Considering claim 16 Fujinami discloses the system wherein each of the plurality of original pictures contains a display indicator (timing data) and the processor (28 Fig. 4A) is further programmed to selectively modify the display indicator of the original pictures that follow the compatible picture when a dummy picture is inserted into the video signal (a display indicator as disclosed in the applicants specification instructs certain decoders as to when a particular picture will be displayed relative to a number of

other pictures in a video signal, the timing data that Fujinami discloses directs his system as to which frame to display relative to the other frames when a pause command is initiated, and when the dummy [duplicate] picture is inserted in the signal, the timing signal is modified to remain unchanged instead of continuing its counting sequence, column 14 line 50 - column 15 line 13).

As for claim 17 Fujinami discloses the system according to claim 16, wherein the dummy pictures are dummy predictive pictures (the compatible pictures are intra pictures, predictive pictures and Bi-directional pictures, the type of picture is determined by the current frame that the system is displaying when the user pauses initiates a pause command, column 14 lines 29-33 and when the system is paused compatible pictures are repeatedly supplied to the viewer which the equivalent of inserting dummy pictures into the signal since dummy pictures are just repeated duplicates of the compatible pictures column 14 line 50 - column 15 line 13).

With respect to claim 18, Fujinami discloses the system wherein the compatible picture is an intra picture and the processor (28 Fig. 4A) is further programmed to selectively insert the compatible I picture into the trick mode signal (the I-frame is selectively inserted when the users initiates a pause command when the I-frame is the current frame being displayed column 14 line 50 - column 15 line 13).

Considering claim 19, Fujinami discloses the system further comprising a remote decoder (7 Fig. 4B) for decoding at least a portion of the trick mode video signal (the decoder is built in to the system therefor the system decodes signals that have been loaded onto the storage drive).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. The following are suggested formats for either a Certificate of Mailing or Certificate of Transmission under 37 CFR 1.8(a). The certification may be included with all correspondence concerning this application or proceeding to establish a date of mailing or transmission under 37 CFR 1.8(a). Proper use of this procedure will result in such communication being considered as timely if the established date is within the required period for reply. The Certificate should be signed by the individual actually depositing or transmitting the correspondence or by an individual who, upon information and belief, expects the correspondence to be mailed or transmitted in the normal course of business by another no later than the date indicated.

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Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

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Signature: _____

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Please refer to 37 CFR 1.6(d) and 1.8(a)(2) for filing limitations concerning facsimile transmissions and mailing, respectively.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Sheleheda whose telephone number is (571) 272-7357. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on (571) 272-7331. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

James Sheleheda
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